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## PATENT ABSTRACTS OF JAPAN

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### (54) REPELLENT AGAINST BLOOD-SUCKING NOXIOUS INSECT

(57) Abstract:

**PROBLEM TO BE SOLVED:** To obtain a repellent against blood-sucking noxious insects for an indoor space capable of easily making a space which has excellent safety by including nootkatone and so on as active ingredient(s), to repel blood-sucking noxious insects.

**SOLUTION:** This repellent is obtained by including nootkatone, valencene, or a mixture of these as active ingredient (s). The nootkatone and valencene are obtained, for example, from natural products such as grapefruit oil according to the general method for isolating and purifying terpenes. The repellent can be usually used by retaining on a liquid, solid, gel, or gas carrier followed by preparing as indoor fragrance, aerosol, sheets, or coating materials. It is preferable that the indoor fragrance contains the active ingredient(s) at 5 wt.% or higher, and that the aerosol contains the active ingredient(s) at 0.1 wt.% or higher.

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